AUTHOR INDEX

Volume XXIII, Nos. 1-6, 1970

Atiyah, M. F.: Resolution of singularities and division of distributions, 145

Bauer, Louis, *Reiss*, Edward L., and *Keller*, Herbert B.: Axisymmetric buckling of hollow spheres and hemispheres, 529

Behncke, Horst: A note on the Gel'fand-Naimark conjecture, 189

Birman, Joan, and *Magnus*, Wilhelm: Discriminant and projective invariants of binary forms, 269

Bramble, James H., and *Schatz*, Alfred H.: Rayleigh-Ritz-Galerkin methods for Dirichlet's problem using subspaces without boundary conditions, 653

Brezis, Haim: On a characterization of flow invariant sets, 261

——, *Crandall*, M. G., and *Pazy*, A.: Perturbations of nonlinear maximal monotone sets in Banach space, 123

Bromberg, E.: Buckling of a very thick rectangular block, 511

Ching, Wai-Mee: A continuum of non-isomorphic non-hyperfinite factors, 921

Conley, Charles C. and *Smoller*, Joel A.: Viscosity matrices for two-dimensional nonlinear hyperbolic systems, 867

Crandall, M. G.: see *Brezis*, H.

Fichera, Gaetano: Approximation of analytic functions by rational functions with prescribed poles, 359

Friedrichs, K. O.: On Clarkson's inequalities, 603

Garabedian, Paul R.: A method of canonical coordinates for flow computations, 313

Guillemin, Victor W., *Quillen*, Daniel, and *Sternberg*, Shlomo: The integrability of characteristics, 39

Heinz, Erhard and *Hildebrandt*, Stefan: Some remarks on minimal surfaces in Riemannian manifolds, 371

Hildebrandt, Stefan: see *Heinz*, Erhard

——: On the plateau problem for surfaces of constant mean curvature, 97

Hörmander, Lars: On the singularities of solutions of partial differential equations, 329

Hughes, Ian: Division rings of fractions for group rings, 181

Jager, Willi.: Behavior of minimal surfaces with free boundaries, 803

Karcher, Hermann: On the Hilbert manifold $H_1(S^1, M)$ of closed curves, 201

Keller, Herbert B., see *Bauer*, Louis

Keller, Joseph B.: see *Lynn*, Roger Y. S.

Kim, Hong W.: On commutative nilpotent operators, 885

Kreiss, Heinz-Otto: Initial boundary value problems for hyperbolic systems, 277

——, *Thomée*, V., and *Widlund*, O.: Smoothing of initial data and rates of convergence for parabolic difference equations, 241

Kumano-go, Hitoshi: A problem of Nirenberg on pseudo-differential operators, 115

Ladyzhenskaya, O. A., and *Ural'tseva*, N. N.: Local estimates for gradients of solutions of Non-Uniformly elliptic and parabolic equations, 677

Lax, Peter D., and *Phillips*, Ralph S.: The Paley-Wiener theorem for the Radon transform, 409

Lipshutz, Seymour: On the Greendlinger groups, 743

Lynn, Roger Y. S. and *Keller*, Joseph B.: Uniform asymptotic solutions of second order linear ordinary differential equations with turning points, 379

Magnus, Wilhelm: see *Birman*, Joan

McCarthy, Donald: Infinite groups whose proper quotient groups are finite, II, 767

Miranda, Guillermo: Intregal equation solution of the first initial-boundary value problem for the heat equation in domains with nonsmooth boundary, 757

Morawetz, Cathleen S.: The Dirichlet problem for the Tricomi equation, 587

Moser, J.: Regularization of Kepler's problem and the averaging method on a manifold, 609

Nirenberg, Louis and *Treves*, Francois: On local solvability of linear partial differential equations, Part I: Necessary conditions, 1

—— and *Treves*, F.: On local solvability of linear partial differential equations. Part II. Sufficient conditions, 459

Oleinik, O. A.: On the Cauchy problem for weakly hyperbolic equations, 569

Pazy, A.: see *Brezis*, H.

Phillips, Roger S.: see *Lax*, Peter D.

Poss, Samuel: A residual property of free groups, 749

Quillen, Daniel: see *Guillemin*, Victor W.

Rabinowitz, Paul H.: Nonlinear Sturm Liouville problems for second order ordinary differential equations, 939

Schupp, Paul E.: On Greendlinger's lemma, 233

Ralston, James V.: Deficiency indices of symmetric operators with elliptic boundary conditions, 221

Reiss, Edward L., see *Bauer*, Louis

Schatz, Alfred H., see *Bramble*, James H.

Shapiro, Harold N.: On the counting problem for monotone Boolean functions, 299

Sloss, James M.: Some free boundary value problems in elasticity with electroelastic applications, 705

——: Global solutions by parameter continuation for a class of nonlinear singular integral equations, 841

Smoller, Joel A., see *Conley*, Charles C.

——: Contact discontinuities in quasi-linear hyperbolic systems, 791

Sternberg, Shlomo: see *Guillemin*, Victor W.

Stoker, J. J.: Uniqueness theorems for surfaces consisting of cones or cylinders closed off at one end by convex bases, 425

Stroock, Daniel W.: On certain systems of parabolic equations, 447

Sussmann, Hector J.: Non-Spectrality of a class of second order ordinary differential operators, 819

Thomée, V.: see *Kreiss*, H. O.
Treves, Francois: see *Nirenberg*, Louis
——: Hypoelliptic partial differential equations of principal type with analytic coefficients, 637
Turner, R. E. L.: Nonlinear eigenvalue problems with nonlocal operators, 963
Ural'tseva, N. N.: see *Ladyzhenskaya*, O. A.
Vaillancourt, Rémi: A simple proof of Lax-Nirenberg theorems, 151
Widlund, O.: see *Kreiss*, H. O.
——: On the rate of convergence for parabolic difference schemes, II, 79
Winograd, Shmuel: On the number of multiplications necessary to compute certain functions, 165